From boatanchors@theporch.com Tue Feb 11 15:15:20 1997
From: "Karl-Arne Markstr\vm" <kam%a1.mrgst.umc@radux.hk.mobitel.telia.se>
Subject: Re: "Crystal control" using freq synthesizer?
Message-ID: <82514111207991/1030325@MRGST>

Fellow BA'ers,

Bob wrote:
ª
ªHas anyone on the list had success using a modern frequency synthesizer to
ªprovide drive into a crystal oscillator stage in a boatanchor? Any suggestions
ªon the best way to accomplish the RF coupling to do this? Would a buffer stage
ªbe recommended?

>From the description of the case (chirping even when driven from the
synthesizer),
it seems like the X-tal oscillator stage in the TRC-77 is oscillating on its
own, perhaps with a little help from the synthesizer.
In my opinion, +10 dBm (abt 1 V rms over 50 ohms)
drive into a tube crystal oscillator could be
marginal at best. In addition it could be advisable to disconnect
the feedback path in the oscillator to prevent spurious oscillations.

The circuit that I would propose is a buffer amplifier with a power output of +20
dBm or so
connected to a broadband transformer or a tuned circuit step-up with a few hundred
ohms impedance,
fed to the grid of the X-tal oscillator via a blocking capacitor.

A suitable circuit for this was described in the ARRL Handbook in the early 70's.

The point is to drive the grid with sufficient amplitude (several volts) of the
wanted frequency,
to override any tendency to oscillate on other frequencies, it is not uncommon to
find an X-tal oscillator turn
into a VFO at some (or many) undetermined frequency(-cies) when you pull out the
crystal...

Hope this helps,

73/
Karl-Arne Markstrom
SM0AOM
kam@stoa.mobile.telia.se

From boatanchors@theporch.com Tue Feb 11 15:15:20 1997
From: km1h@juno.com

Subject: Re: "Crystal control" using freq synthesizer?
Message-ID: <19970211.135020.9215.16.km1h@juno.com>

Hello BAers. Altho the following is not completely following the discussion it may be of some interest in those that enjoy having their feet planted in both worlds.....

My favorite small signal amplifier is based upon the 2N5109 which is an ultra linear device designed for CATV line amplifier service.

I use it here as a broadband amplifier (1.5 to 150MHz BW with a 30MHz NF of 1.5dB) in a 10dB gain lossless feedback circuit. Zin and out are both 50 Ohms which makes a step-up broadband or narrow band transformer easy to implement. Since the device is capable of 1W Class A output other gain configurations are possible.

I also use that device to boost the miniscule 3 milliwatts from the transverter port of my TS-940 to the 250mw necessary to drive an old BA Hallicrafters HA-6 transverter. The circuit is narrow band (26-30MHz) and is based on the DBM post-amp circuits in recent ARRL Handbook VHF articles.

It is so easy to wire in a BA for whatever purpose. Tap off the 6.3V filament line thru a voltage doubler or tripler and thru a 3 terminal regulator.

As a matter of interest, I am sketching up a circuit now to replace the first mixer "noise source" in my 51J4 with a high-level LO (+17dBm) DBM and 2N5109's as both VFO buffers and DBM post-amps. This will be the first step in trying to obtain the ultimate weak signal platform for VHF work.

73........Carl KM1H

From boatanchors@theporch.com Tue Feb 11 15:15:20 1997
From: "Roberta J. Barmore" <rbarmore@indy.net>
Subject: Re: "Crystal control" using freq synthesizer?
Message-ID: <Pine.SUN.3.91.970211135711.21824H-100000@indy2>

Hi!

Beseems me a typical sand-ish synth doesn't have enough "oomph" to be a crystal replacement; you need more voltage swing at the grid of the tube.

Alas, you also want to discourage the osc going into business for itself. See the article in ER a few years back on the Millen VFO, especially driving a Millen 90800 transmitter--the VFO has an output coil in the connector, and the 6L6 osc in the 90800 wanted to take off on some bands. A Signal Shifter, which runs more soup and usually requires a pot across the output to reduce the swing, did not have the same problems in the same app--that pot is acting as a "swamping" resistance as well, and effectively reducing the feedback.

So in older transmitters, one might want another buffer stage in the synth, followed by a broadband transformer to step up the voltage swing, and a middling-small load resistor on the secondary. Really hard cases might want the plate coil of the rig's osc tube modified for the addition of a neutralizing condenser (a few pF in a 6L6, and Millen wrote up all the variations of making one in a '30s QST--a "gimmick" is simplest).

A lot of later rigs (notably Heath, of which I have personally messed with the HW-16 and DX-20) will accomodate a VFO with only minor changes if any, and all it takes is figuring out how much swing the thing needs and what sorts of source impedances are reasonable.

One of the handier old-time tricks is to use an untuned, broadband *tube* amp--something like a 6V6 should do. The '41 E&E/"Radio" handbook has a fine example of this. This allows you to avoid turning the osc into an inadvertent TPTG--but watch the RFC in the untuned stage, as you can make a TNT of it instead! (Boom! Well, more like "chirp & glitch").

Personally, I'd not use a synth. It's cheating. The vacuum-tube VFO is quite a mature art, with plenty of available dope on controlling drift, getting good stability despite keying, and decent tuning rate. Old Signal Shifters are not hard to come by, though they drift like mad and take a long time to settle down;* ER has had at least two articles in the past few years on very stable VFOs (one was a mil-surplus canned PTO, the other a Vackar or Clapp, I think), and Perrine's (et al, most of it in late-30's editions of "Radio" magazine, plus a few QST articles) work on conversion oscillators--crystal plus an eco in or below the low end of the AM BC band) points the way to really outstanding stability. Charlie used mainly grid-plate and Hartley ecos in the conversion jobs, and I 'spect a circuit with greater inherent stability (and maybe some compensation) would produce really fine results. Geting rid of the unwanted mixing products is a challenge, and might be easier if the the eco was in the 160 meter region--there's a whole slew of trade-offs to be considered. There is no reason not to use tubes for this, I think, and plenty of reasons to do so; with a synth, you're back to push-button plastic ham radio in my opinion. All that solid-stateness might be better expended in a freq counter, which will let you know where the tube VFO has taken off to.... ;)

73,
--Bobbi

I am doubtful that the drift in a 'Shifter can be compensated out--Meissner tried! But maybe. You'll be wanting to bring your lunch to *that* job. Better to just leave it on an hour before use.

From boatanchors@theporch.com Tue Feb 11 15:15:20 1997
From: Mike Warren <m_warren@compuserve.com>
Subject: 2/9/97 N* For-sale/Trade listings
Message-ID: <199702110842_MC2-111E-F860@compuserve.com>

Hi Gang,

Sorry this is late - been having e-mail probs wid gud 'ole Compu$serve.

From: Mike Warren,

From boatanchors@theporch.com Tue Feb 11 15:15:20 1997
From: rdkeys@csemail.cropsci.ncsu.edu
Subject: ArcusFivus BA/GB Net Fun and CHEAP antenna relays that work!
Message-ID: <9702111630.AA150205@csemail.cropsci.ncsu.edu>

I had the good fortune to get the ol' ArcusFivus barnburner up at a fine etherburning tilt of 12 wattes de ethere, and had great fun for about 4 hours on the BA/GB 80M QRG. Folks all over east of the Big Muddy heard it and it seemed to be quite stable and chirp free, stock (i.e., using the underbelly selector relay for keying and disconnecting one lead to the antenna relay and rolling the contact around to make the antenna contact --- all else unmodified). I was able to do some serious QRQ/QSK research with it and have the following findings for the group:

1) The generic underchassis selector keying relay will key fine at any QRQ up to 35wpm, without spitting dits by the use of a 5ufd capacitor across the keying contacts (i.e., across the relay coil) to nudge the relay slightly. Keying was essentially perfect, with no chirp or clicks, provided the oscillator B+ was made first before the amplifier cathodes were keyed (bend slightly the oscillator contact on the underchassis selector relay to make ahead of the final amplifier cathode contact).

2) A very simple and effective ``semi-breakin'' antenna changeover relay can be made using a standard industrial strength 10 hp contactor relay (the big spdt plastic monsters about 3 inches cubed) of the 24 vdc or 110vac types (I used a Potter and Brumfield plastic cubed plugin relay about 3 inches cubed number PRC5A11 120vac 50/60 hz). A series polarity diode to the key and a 1000 ufd 50v cap across the contactor relay coil gave about a 3 second changeover delay.

3) On separate antennas, the ol' arcusfivus would QSK with the best of the bigboyz and their hills o' Tennessee technical boxen. On

a single antenna with that UGLY of UGLIES looking contactor, it would semi-qsk with the best of the other style boxen wat can only muster up a slow sort-of-vox-based ``semi-breakin'' QSK.

My guess is that any of the usual plastic industrial contactor relays would work fine as antenna changeover relays for generic glowbugging and boatanchoring use, at any power up to about 100 wattes de ether. My use of it was in a HIGH IMPEDANCE antenna at 12 watts with no ill effects. On a 50 ohm line or a 600 ohm line, it would be a no sweat. They are way to slow to do true QSK, even at 15 wpm, but perfectly fine in semi-breakin mode. Apparently, the bigger and the uglier, the better, when it comes to sufficient plastic insulation to render the relays acceptable for rf use. The contacts were a good 1/4 or 5/16 inch in size and should easily handle the rf load.

All right! For the rest of the week/weekend, I challenges all ye fine Glowebuggeites and Boatanchorites to fires ye up yer ArcusFivies rigges an' rattles an' bangs with the best of the ancient ether burners! Fer those of ye without such accoutrements de hamdom as antenna changeover relays (i.e., the quick fingerdriven alligatorclippe crowd), grapples ye up any fine industrial strength junque box contactor relay fer antenna a'changin' an' tally ho!

73/ZUT DE NA4G/Bob UP

From boatanchors@theporch.com Tue Feb 11 15:15:20 1997
From: Ethan Emeson <emesone@elwha.evergreen.edu>
Subject: Re: BA items in upcoming Estate Auction Feb 15th. - Penna.
Message-ID: <Pine.ULT.3.91.970210222525.1979C-100000@elwha.evergreen.edu>

On Mon, 10 Feb 1997, John H. Dilks III wrote:

> To All BA'ers,
>
> Many BA items are in the upcoming Estate Auction, Feb 15th., in Havertown, PA, near Philadelphia. A large selection of antique radios, Ham Radio Equipment, Box-lots of parts, tubes and everything you always wanted!
>
><snip>

STOP taunting me with this! I'd love to go and bid on some stuff- maybe your club will supply me with a roundtrip airline ticket so I could make it? Anyone else care to go, courtesy DVHRC?
--Ethan

From boatanchors@theporch.com Tue Feb 11 15:15:20 1997
From: "Terry L. Dobler" <kj7f@micron.net>
Subject: Big Dream - Small Screen
Message-ID: <2.2.32.19970211171028.002b40d0@pophost.micron.net>

Gang,

If you enjoyed the show on Farnsworth check out the PBS web page for the show at http://www.pbs.org/wgbh/pages/amex/technology/bigdream/index.html

They also give a phone number to purchase a tape for those whose VCR's didn't record the show.

Terry

PS   No connection to PBS other than I worked for the local PBS station years ago.

From boatanchors@theporch.com Tue Feb 11 15:15:20 1997
From: spinella <spinella@pisa.infn.it>
Subject: chicago markets ...
Message-ID: <3300BC50.7994C3DF@pisa.infn.it>

Hi friends,
as you probably know (this is not the first time I'm writing to the list) I'm a young US army radio collector from Pisa, Italy.
I'm writing because next week I'll come for work to Fermilab, Chicago.
Considering that near a little town like Pisa there are three "shops" where is possible to buy old rigs and regenerated instruments
(most of all they buy trucks of equipment from the army payng just as metal and selling as the metal were gold ...)so I suppose that near Chicago there should be at least one hundred or so of these place ...
Howerer I has been in Illinois twice before, and never found one ...
So, please, could someone send me some addresses quite near to Chicago were I could spend some of few dollars ?
Above all I'm searching for military rigs and RF instruments, like a spectrum analyzer 141T which I've just decided to buy.

Thanks a lot

Franco IW5DUM

Dr. Franco SPinella
scali olandesi 52 57125 livorno Italy
003950880203
spinella@pisa.infn.it
GOD IS REAL UNLESS DECLARED INTEGER

From boatanchors@theporch.com Tue Feb 11 15:15:20 1997
From: "James C. Owen, III" <owen@piper.eeel.nist.gov>
Subject: Drake List
Message-ID: <37151.owen@piper.eeel.nist.gov>

In a post last week I made mention of the Drake List. Since then I have had a number of inquires as to how to join. It seems that many Drake owners on BA don't know about the Drake list. The purpose of the list and I quote "Discussions concerning equipment manufactured by R. L. Drake Company." To subscribe send message to   listserv@fablotz.min.net and in the body
subscribe drake
Hope you find it useful. 73 Jim K4CGY

From boatanchors@theporch.com Tue Feb 11 15:15:20 1997
From: Jeffrey Herman <jeffreyh@hawaii.edu>
Subject: Freq'y for 2m AM?
Message-ID: <Pine.GSO.3.93.970211095532.19322A-100000@uhunix3>

Can someone write to Mark (below) and answer his question? Thanks!
Jeff KH2PZ

mlangen@earth.execpt.com asked:
>Is their a particular freq. where operators of vintage 2 M AM gear hang
>out?
>
>Mark -- WA9ETW

From boatanchors@theporch.com Tue Feb 11 15:15:20 1997
From: Ethan Emeson <emesone@elwha.evergreen.edu>
Subject: FS/FT: tubes
Message-ID: <Pine.ULT.3.91.970211094407.14797C-100000@elwha.evergreen.edu>

The great firebottle spirit is getting angry with me for having so many
of his progeny trapped in boxes and not warming their innards with the

glow of life- save me from his arian wrath. I'll come off stuff real
easy, 'cept maybe a few of the harder to come by types, and even then
I'll be a lot saner than a commercial reseller (eg AES)- not hard to do.
(don't have any KTxx, EL34, 6550, etc).
--Ethan

From boatanchors@theporch.com Tue Feb 11 15:15:20 1997
From: Ben Bradley <bradley@norcross.mcs.slb.com>
Subject: FS: Prehistoric Test Equipment
Message-ID: <3.0.32.19970211121939.0091fc60@norcross.mcs.slb.com>

A co-worker has the following boatanchor-style test equipment for
sale. Please send all queries to his email address below.
I'll be going to the Dalton, GA Hamfest Feb. 22, and I've offered
to deliver any purchases there for any buyer who will be attending.

```
>Prehistoric Test Equipment for Sale:
>
>
>
>HP200AB Audio Oscillator
>
>HP522B Electronic Counter
>
>Servo Corp of Hicksville N.Y. Model 1980 Servomatic Analyzer (Function
>Generator)
>
>Heath Audio Generator   model AG-8
>
>Heath Squarewave Generator  model SQ-1
>
>Also, lots of miscellaneous hardware for 8088, 80286 PCs:
>motherboards, hardrives, controllers, monitors, etc.
>
>
>respond via Email to:
>eberhard@norcross.amrt.slb.com
```

```
-----------------------------------
       Ben Bradley, Design Engineer
       Schlumberger MCS
snail: 3155-B Northwoods Parkway
       Norcross, GA 30071-1576 USA
email: bradley@norcross.mcs.slb.com
voice: 770-368-3444 ext. 3191
fax:   770-840-8614
```

From boatanchors@theporch.com Tue Feb 11 15:15:20 1997
From: ARNI HAGEN <aphagen@okla.net>
Subject: Re: Gathering of Boatanchors
Message-ID: <3300D00A.95A@okla.net>

> And 73, de WA5DUK, Lynn Fisk.

Hi Where is Smithville?
I am in the middle of Noplace, OK.

thanks   arni W5SRO

From boatanchors@theporch.com Tue Feb 11 15:15:20 1997
From: Mike Warren <m_warren@compuserve.com>
Subject: Ham Equipment Auction Notice - WI
Message-ID: <199702110845_MC2-111E-F895@compuserve.com>

Hi Gang,

One of the Wisconsin repeater clubs is sponsoring an auction of Ham equipment:

Feb. 25, 1997 at 1900 in Eau Claire at the American Legion, 634 Water Street.
Admission is $3.00 and you can bring your own items to be auctioned. Club keeps 10% of the selling price.

73,

Mike W5MAZ (in MN)
m_warren@compuserve.com

From boatanchors@theporch.com Tue Feb 11 15:15:20 1997
From: bdhall@ghg.net (Benjamin D. Hall)
Subject: more HV fuse info
Message-ID: <3300D93D.A1A@ghg.net>

Hiya HV fuse dudes. Phil Mills checked out the HV fuses this morning, and they are 3/8" diameter and 4 1/2" long. Right now, there may be 3/4 amp, 2 amp, and 3 amp fuses in this size.

Folks, if you are interested, let me know by Friday. Also, what is a good price for these things?

73,
Ben
--
Benjamin D. Hall, Houston Texas - Junque collector extraordinaire.
E-mail: BDHall@GHG.net (home) -or- Benjamin.D.Hall1@JSC.NASA.GOV

From boatanchors@theporch.com Tue Feb 11 15:15:20 1997
From: "ro" <otterstad@mec.dk>
Subject: Re: PBS airing the Code Breakers
Message-ID: <199702111603.RAA16691@inet.uni-c.dk>

I get the list via digest, so hope I'm not repeating someone else. PBS
in the New York area is airing the Code Breakers this Sunday at 9 PM.
Don't know about the rest of the country, but I would think schedules are
imilar. Enjoy, I know I will.
Gary, K2ZSZ
Should anybody on the list being a collector of cryptogear, I have a
Swiss cipher machine NEMA for sale. It is immediate post war generation,
working with rotors like the ENIGMA, in super condition with manaul.

Price 2200 dlrs ex CPH

Optionally I could bring it over to Chicago next month

73 Rag OZ8RO

From boatanchors@theporch.com Tue Feb 11 15:15:20 1997
From: Spencer Petri <spetri@e-tex.com>
Subject: Re: PBS TV Show
Message-ID: <m0vuCRe-0000DHC@e-tex.com>

It was great. To bad I live in a fringe area and couldn't get a good recording.

73 de Pete WA5JCI
****
6 Mtr -- WAS #490, WAC CW, DXCC/91 Countries, VUCC/618 Grids
****

From boatanchors@theporch.com Tue Feb 11 15:15:20 1997

From: "Cathy Elizabeth D'Entremont" <cdent@tenet.edu>
Subject: QF-1 pinout?
Message-ID: <Pine.OSF.3.91.970211090035.12296A-100000@francis.tenet.edu>

Anybody got the pin-outs for the octal on the Heath QF-1 Q-multiplier and/or docs?

Tnx es 73, Gerald W5BA
cdent@tenet.edu

From boatanchors@theporch.com Tue Feb 11 15:15:20 1997
From: azoth@netcom.com (Az0th)
Subject: Regenny!
Message-ID: <199702111446.JAA11510@netcom.netcom.com>

Hiyall,

I've finally laid my hands on an old regenny, built with some attention by somebody some while ago, I'm guessing. Not a commercial job, certainly, but possibly a kit. The only one I saw in the '34 Shortwave handbook that was at all similar was the Doerle, and there are significant differences.

It's a two-holer, with a Rogers 6C6 pentode, and a 76 triode, both with metal shields. It's got a power transformer and an audio output transformer, and several odd-looking Polymet condensers underneath the aluminum chassis, which is itself mounted on a thin, dark-stained board. It's got a pot for a Regen control, which I'm guessing is in the screen circuit of the 6C6, and a pair of nice Hammarlund tuning caps, each driven by a nifty Type B variable-ratio vernier drive, and each separately mounted on its own bakelite sub-panel. There's only one coil installed, and it looks like a Hartley configuration. All the wiring is cotton insulated, except for the grid circuit of the 6C6, which also has a braided shield.

The most striking feature of the set, besides those big Type Bs, is the front panel itself, which is beautifully machine turned. There's no power cord, but a tube socket apparently wired to the Receive/Standby switch.

Obviously, a bit of restoration is in order before I apply power, but I'm wondering whether this set rings any bells for anyone here. The single catalog I have from that era, a Radio Specialty Co. #18, is somewhat earlier than this set would appear to be. When did 6C6s become available?

My plan of attack is to disassemble the unit to the point that I can draw out the schematic, then test and measure the components, replacing those that need replacing. Then I get to see if there's any smoke left.

Anyway, thought I'd crow a little, since even with all the bottle babies I've got sitting around here, this is the onliest regenny.

Cheers es 73
de KF4FJH - RF Buchanan

From boatanchors@theporch.com Tue Feb 11 15:15:20 1997
From: "Grant Youngman" <nq5t@gte.net>
Subject: Shure Microphone Repair ??
Message-ID: <199702111839.MAA18573@smtp.gte.net>

Gang ..

Does anyone know if there is someone out there who can replace the silk screening in a Shure Model 55 microphone?

Shure's own "repair" department won't do it. Surprising, since they sell a modern equivalent of the original 55SW, which also has the silk screening in it ....   Hmmmmm.

Grant/NQ5T

Grant Youngman -- NQ5T
nq5t@gte.net
HTTP://home1.gte.net/nq5t/index.htm
Double Oak, TX (near Dallas)

From boatanchors@theporch.com Tue Feb 11 15:15:20 1997
From: "Roberta J. Barmore" <rbarmore@indy.net>
Subject: Stuff shipped, Marconi, etc.
Message-ID: <Pine.SUN.3.91.970211132705.21824G-100000@indy2>

Hi!

Just a few notes. Finally shipped out several boxes, so anyone to whom I have owed knobs & dial plates, mic transformers, a crystal or an insulator should see 'em shortly. (All but the overseas went Priority Mail, as the cost was within a dime of plain ol' mail).

Got some nice things in recently--Vintage TV & Radio sells dial pointers, which with some gears salvaged from the old transmitter and 3" dial plates from the local surplus joint will make nice drives & indicators for the variable condensers in a Z-match antenna tuner. (BTW, hunting that down led in a circle, from "Hambrew" magazine to the list to the Wireless Institue of Australia's fb "Amateur Radio" mag--thanks to Morris Odell's providing reprints!--and back to the source, the RSGB Handbook(*) on my very desk. But the VK/ZL version seems best and that's what I'm building, the weather being too lousy to actually improve the antenna so I'll see if it can be matched to better!) Small Parts, Inc. sells various gears that could be used if somebody else wants to try making their own reduction drives, BTW.

Vintage TV & Radio has also got a fair stock of old speakers, of which a small Jensen will be going in a faked-up copy of the postwar National cabinet for the HRO-7 here. (No, not going to fake the <NC> emblem--may put my own initials on it if I get interested enough in small-scale Babbit casting!)

Also received an order from Lindsay Publications, and if anyone here is interested in old telephones, the "Vintage Telephones" book is *super!* A lot of good technological history and insight into what AT&T/WeCo and competitors were thinking, along with restoration info. The dope on carbon mics, both theory and practical info on the Bell mic elements, is well worth buying the book IMO. (Also got a comic-book intro to the calculus, giggle all ya like but I never learned it and maybe this'll help, Newton's original being a bit much to tackle right off). Lindsay has also reprinted a whole stack of Gernsback dime phamplets on radio--terms, building various sets, antennas, etc.--which are fun reading though now a bit more than ten cents per each. (Maybe in consolation for not being able to redo the MRL booklets, which he wanted to 'til MRL got wind...Lindsay thought they were gone instead of just hard to find).

Finally, I "signed" the Marconi petition, and received a nice note from Enrico in reply. I'd really like to ask everyone who feels strongly about this to sign it as well. Christie's may have done a nice job on their web pages advertising the auction (haven't had time to look) but that stuff should stay in the same place and scholars should have access to it. It doesn't deserve to become mere tropies and office decorations scattered willy-nilly across the globe.

73,
--Bobbi

---

* FWIW, the RSGB Handbook is as nice a reference as the old Jones/"Radio" Handbooks are. I've never seen a prewar or even pre-70s one, and wonder if the UK BAers here collect them. Mine's a fairly recent edition, bought about 10 years ago, and covers everything from valves to ICs. Most of the transmitter projects are valve-type rigs, and very nice ones, too, despite the "unobtanium-priced" KT88's in the outputs of several. :) Very hands-on approach to theory, which may be why they remind me of the Jones HBs.

From boatanchors@theporch.com Tue Feb 11 15:15:20 1997
From: John <jackiv@postoffice.worldnet.att.net>
Subject: Tektronix scope problems
Message-ID: <19970211070454.AAA6449@LOCALNAME>

An item to remember about the old scopes: The little ceramic terminal"boards" do short out between the adjacent grooves, especially in the high voltage circuits. I went through hell trying to find where the high voltage went away until I remembered that an old tek service guy told me about the silver migration problem in some units. This was in a curve tracer, very low hi voltage on the crt.
FWIW I have a quanity of the 5642 diodes NIB as used in the tripler of the 5xx series big boxes cheap..

Jack Iverson K0EWU jackiv@juno.com
73 es good hunting BA's are always in season..

From boatanchors@theporch.com Tue Feb 11 15:15:20 1997
From: Mike Warren <m_warren@compuserve.com>
Subject: re: Those confusing capacitors!
Message-ID: <199702110842_MC2-111E-F856@compuserve.com>

Hi Gary,

Here's some info that may be helpful (from Radiotron Designiers handbook):

First of all, there were at least four different "dot" systems for molded mica capacitors.
1. The old R.M.A. six-dot system. Dots 1,2,3 are capacitance; 4 is voltage; 5 is tolerance; 6 is multiplier. Dot 1 is any color other than white or black.
2. The R.T.M.A. (R.C.M.) six-dot system. Dot 1 white means RTMA code. Dot 1 black means JAN code. Dots 2,3 are capacitance. Dot 4 is "class" (RTMA) or "characteristic" (JAN). Dot 5 is tolerance. Dot 6 is multiplier.
Dot numbering is left-to-right on BOTH rows. Orientation is white/black (dot 1) in upper left corner or multiplier (black/brown/red/orange/yellow) in lower right corner.
So, to summarize a six-dot cap: if dot 1 IS NOT white or black, dots 1,2,3 = capacitance; 4=voltage; 6=multiplier. If dot 1 IS white or black, dots 2,3=capacitance; 6=multiplier.

3. The three-dot system. Dots 1,2=capacitance; dot 3=multiplier.
Orientation is "name" above the dots or "arrows" pointing right.

4. The four-dot system. Looks like a three-dot with a smaller dot in upper left corner. The small dot indicates tolerance. Dot meaning and orientation same as three-dot.

RTMA table:

color	value	multiplier	tolerance
black	0	1	20%
brown	1	10	
red	2	100	2%
orange	3	1000	3%
yellow	4	10000	
green	5		5%
blue	6		
violet	7		
grey	8		
white	9		
gold		.1	
silver		.01	10%

73,

Mike W5MAZ (in MN)
m_warren@compuserve.com

From boatanchors@theporch.com Tue Feb 11 15:15:20 1997
From: km1h@juno.com
Subject: Re: Those confusing capacitors!
Message-ID: <19970211.114939.9215.8.km1h@juno.com>

Hello Gary;

I solved this problem a few years ago by buying a handheld digital VOM + C Meter. They are accurate enough for most BA use and pay for themselves as a time saver.

According to some old manuals there were 4 or 5 competing marking systems over the years just in the USA; maybe even more. Then add in the confusion of changing paint pigment and old eyes. And that is just for the micas!

The need for a meter became evident after I bought a large assortment of silver micas that were unmarked, smeared markings or completely mislabeled. These were "throw aways" from the mfg that wound up in a scrap dealers inventory.

I have also been bit several times in the past 40+ years by mislabeled resistors and capacitors that came from reputable dealer or mfg stock.

One other thing to consider with those old micas......there is always the possibility that they have absorbed moisture and will fail when put in service. The same holds true for that old BA radio that has been sitting for years.

Have fun!

GL.......Carl KM1H

From boatanchors@theporch.com Tue Feb 11 15:15:20 1997
From: jproc@bellglobal.com
Subject: Tube Lore
Message-ID: <Chameleon.4.01.2.970210230315.jproc@>

Dear BA'ers,

I received several requests for the source of the reference book called 'Tube Lore'. It's only available from the author:

Ludwell Sibley
44 E. Main St.,
Flemington NJ
08822
USA

Cost is $US 19.95 with postage prepaid to anywhere in North America. Please contact the author for international postage rates.

Allow me to mention a bit about the book. It's soft covered, 8.5 x 11 format with 186 pages of information that may be virtually impossible to find in other publications. It does not replace a good quality tube manual - it supplements it. These are the authors own words. Only the most basic of specifications are listed and no basing diagrams appear anywhere in the book. The tubes are arranged by the following catagories:

Pre-historic Types
RMA/EIA Receiving Types
Special Purpose Types RMA System
Special Purpose Types RMA System 5000 to 9000 series
Special Purpose Non-registered Types
CRT's and Monoscopes
Military Types - VT Nomenclature

Tubes specific to many manufacturers including Western Electric

This book can certainly field most of the tube questions asked on this list and I would highy recommend it if you want to make a serious addition to your technical library. I have presented this mini book review on my own initiative and I'm not associated with the author in any fashion.

Regards,

Jerry Proc VE3FAB
E-mail: jproc@bellglobal.com
Radio Restoration Volunteer
HMCS Haida Naval Museum
Toronto, Ontario

From boatanchors@theporch.com Tue Feb 11 15:15:20 1997
From: "Deane D McIntyre" <dmcintyr@acs.ucalgary.ca>
Subject: Re: Tube Lore
Message-ID: <9702111709.ZZ404397@ds1.acs.ucalgary.ca>

In message <Chameleon.4.01.2.970210230315.jproc@> writes:

>
> Dear BA'ers,
>
> I received several requests for the source of the reference book called 'Tube
>
> Lore'. It's only available from the author:
>
> Ludwell Sibley
> 44 E. Main St.,
> Flemington NJ
> 08822
> USA

> Cost is $US 19.95 with postage prepaid to anywhere in North America. Please
> contact the author for international postage rates

Not to take anything away from what Jerry is saying, but Antique Electronic Supply recently added it to their line. My copy arrived from them last week. Order # is B-748, cost is also $19.95 but postage is not included. As I was ordering a batch of tubes and other goodies from AES I had them include a copy of the book as well. AES can be reached at 602-820-6411 (voice), FAX 602-820-5411 or 800-706-6789.

I have no connection to AES (but they do tend to appear on my credit card statement)

> This book can certainly field most of the tube questions asked on this list
> and I would highy recommend it if you want to make a serious addition to your

> technical library.

Well said. Between having four editions of the RCA tube book,the GE book, the Sylvania book, tube tables in many editions of the ARRL handbook from 1937 to date, and the NBS Tabulation of Data on Receiving Tubes as well as Tyne and various other references there were always a number of tubes I could never find. I was pleased to find most of them in Tube Lore. Only North American tubes not listed are common types introduced after 1950 for which info can be found in any tube book (even so, many post 1950 types are listed). The book even has a photo of the legendary 6D5 on the front.

The only RMA designated tube I cannot find in any source so far is the 12AQ8. They had them for sale at AES for 50 cents and I assumed that they were a 12.6 volt 6AQ8 (twin triode). Orderd a few and judging from the construction they are just that.

Now, if someone would come out with a European "Tube Lore" my tube reference library would be pretty complete.

73, Deane D McIntyre VE6BPO
dmcintyr@acs.ucalgary.ca

From boatanchors@theporch.com Tue Feb 11 15:15:20 1997
From: J P Taillebois <jpt1@idirect.com>
Subject: What is a Spillsbury/Tindall SB-60
Message-ID: <199702110728.CAA02069@relief.idirect.com>

Hi,
Just saw a packet msg, advertising the above transmitter. Just curious as usual.

73
Jean Paul Taillebois 996 Greenlane court, Oshawa, Ontario,Canada M1K-2C6
e.mail jpt1@idirect.com
packet: ve3jpt@va3vw
voice:905-723-1811
fax/data:905 723-9156
Collector: Hallicrafters,Central-Electronic,Gonset, Military BA, antique radio memorabilia.

From boatanchors@theporch.com Tue Feb 11 15:15:20 1997
From: Cal Eustaquio N6KYR <ceustaqu@dot.w6bhz.calpoly.edu>
Subject: Worth of Drake TR-6?
Message-ID: <Pine.SUN.3.91.970211102654.27541A-100000@dot.w6bhz.calpoly.edu>

Anyone have any idea how much a Drake TR-6 is going for these days with p.s, spkr, and remove vfo? Cal, N6KYR.